

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 1    | ((non-volatile adj2 memory) or NVM) and pulse\$1 and (threshold with votage)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/27 14:33 |
| S2    | 1    | ((non-volatile or non\$volatile) with memory) or NVM) and pulse\$1 and (threshold with votage)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/23 10:06 |
| S3    | 3    | ("4233526"   "4404659"   "4933904").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2005/02/23 10:05 |
| S6    | 5    | ((non-volatile or non\$volatile) with memory) or NVM or flash) and (threshold with votage)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/23 10:10 |
| S7    | 3    | ("4132904"   "4342101"   "4348745").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2005/02/23 10:10 |
| S8    | 4    | ((non-volatile or non\$volatile) or NVM or flash) and (threshold with votage) and apply\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/23 10:18 |
| S10   | 414  | ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and threshold and cell\$1 and exceed\$3 and stor\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/28 16:46 |
| S12   | 133  | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and threshold and cell\$1 and exceed\$3 and stor\$5                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/23 10:23 |
| S13   | 93   | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and pulse\$1 and threshold and cell\$1 and exceed\$3 and stor\$5            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/02/23 12:27 |
| S14   | 35   | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4) and pulse\$1 and threshold and cell\$1 and exceed\$3 and stor\$5 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/01/30 10:03 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S15 | 0  | "365"/63,51,191,189.03,230.01, 233.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and pulse\$1 and threshold and cell\$1 and exceed\$3 and stor\$5   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/01 18:15 |
| S16 | 35 | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4) and pulse\$1 and exceed\$3 and threshold and cell\$1 and stor\$5  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/01 09:15 |
| S17 | 7  | 365/63,51,191,189.03,230.01, 233.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and pulse\$1 and threshold   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/23 16:50 |
| S18 | 8  | ("6166573"   "6330197"   "6388485"   "6417706"   "6441662"   "6480047"   "6483359"   "6549051").PN.   | US-PGPUB; USPAT; USOCR                      | OR | OFF | 2005/02/23 17:05 |
| S19 | 5  | ("5844438"   "5990730"   "6104225"   "6166990"   "6212126").PN.   | US-PGPUB; USPAT; USOCR                      | OR | OFF | 2005/02/23 17:07 |
| S20 | 5  | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4 with pulse) and exceed\$3 and threshold and cell\$1 and stor\$5  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/23 17:12 |
| S21 | 21 | ("5095344"   "5270979"   "5297148"   "5321699"   "5380672"   "5430859"   "5532962"   "5602789"   "5602987"   "5657332"   "5663901"   "5712180"   "5867429"   "5887145"   "5991517"   "6222762"   "6230233"   "6266273"   "6522580"   "6542407"   "6560143").PN. | US-PGPUB; USPAT; USOCR                      | OR | OFF | 2005/02/23 17:36 |
| S23 | 3  | "10/354050"   | US-PGPUB; USPAT; USOCR                      | OR | OFF | 2005/02/23 17:36 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S24 | 48 | ("20020145465"   "20030202411"   "4961010"   "5081371"   "5276646"   "5280420"   "5534804"   "5553030"   "5559687"   "5612642"   "5636288"   "5663907"   "5672959"   "5675280"   "5708608"   "5717581"   "5726946"   "5760634"   "5808506"   "5815435"   "5847441"   "5903031"   "5946258"   "5963412"   "6005423"   "6028324"   "6064251"   "6075402"   "6081456"   "6094095"   "6107862"   "6130572"   "6130574"   "6157242"   "6188211"   "6198342"   "6208200"   "6246555"   "6297974"   "6339556"   "6353356"   "6356469"   "6359501"   "6433624"   "6452438"   "6654296"   "6665769"   "6677805").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/23 17:39 |
| S25 | 21 | ("5095344"   "5270979"   "5297148"   "5321699"   "5380672"   "5430859"   "5532962"   "5602789"   "5602987"   "5657332"   "5663901"   "5712180"   "5867429"   "5887145"   "5991517"   "6222762"   "6230233"   "6266273"   "6522580"   "6542407"   "6560143").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/23 20:57 |
| S26 | 38 | ("5,926409" "5,892710" "6,097639" "6,292394" "6,396741" "5,991202" "5,677869" "5,751637" "6,584017" "6,320786" "5,644531" "5,530803" "4,761764" "6,519182" "6,438031" "6,643177" "6,639849" "6,618290" "6,590811").pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 09:13 |
| S27 | 1  | ("6519184").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 09:25 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S28 | 38 | ("6,567303" "6,690602" "6,477085" "4,725984" "6,192445" "5,949714" "6,064591" "6,075724" "6,118692" "5,812457" "5,042009" "5,295108" "5,440505" "5,523972" "5,563823" "3,895360" "4,527257" "5,768193" "5,812449" "5,946258" "5,969993" "6,034896" "6,157570" "6,169691" "5,172338" "5,293563" "5,345425" "5,349221" "5,359554" "5,418743" "6,181605" "6,205056" "6,215148" "6,240032" "6,240040" "6,304485" "6,331950" "6,490204").pn.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 09:33 |
| S29 | 47 | ("5,689459" "5,537358" "5,450341" "5,40354" "5,422844" "5,424978" "5,434825" "5,521870" "5,623438" "6,147904" "6,307807" "6,552387" "5,787036" "5,870335" "6,011725" "5,969993" "5,822256" "6,665769" "5,999444" "6,252799" "6,636440" "5,748534" "6,353554" "5,717632" "6,643170" "5,361343" "6,285589" "6,442074" "6,670669" "6,639844" "6,567312" "6,477085" "6,522585" "5,027321" "5,870334" "5,694356" "5,712815" "6,639837" "5,805500" "5,657332" "5,579199" "5,717635" "6,577532" "6,519180" "6,324094" "6,215697" "6,078518" "5,774395").pn. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 09:44 |
| S32 | 2  | "5,608679".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 09:46 |
| S33 | 11 | ("4357685"   "4460982"   "5053990"   "5218569"   "5222046"   "5371703"   "5381374"   "5386388"   "5394362"   "5394371"   "5444656").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 09:46 |
| S34 | 95 | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and pulse\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 10:08 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S35 | 32 | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and pulse\$1 and threshold and cell\$1 and exceed\$3 and stor\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 10:14 |
| S36 | 27 | ("20020003722"   "20020118569"   "20030002348"   "5467306"   "5677873"   "5715194"   "5748538"   "5776810"   "5867429"   "5973962"   "5986929"   "5991202"   "6011287"   "6028788"   "6046935"   "6061270"   "6108238"   "6134157"   "6228782"   "6307807"   "6353555"   "6363010"   "6411551"   "6456528"   "6469933"   "6480419"   "6493265").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:01 |
| S37 | 1  | ("5909398").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:04 |
| S38 | 2  | ("5636162"   "5815438").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:05 |
| S39 | 5  | ("5570315"   "5596526"   "5602789"   "5675537"   "5754469").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:06 |
| S40 | 6  | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) same (phase with program\$4) same pulse\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 10:09 |
| S41 | 2  | ("5815425"   "5940322").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:10 |
| S42 | 3  | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) same (phase with program\$4) same pulse\$1 and threshold and cell\$1 and exceed\$3 and stor\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 10:12 |
| S43 | 2  | ("5815425"   "5940322").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:13 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S44 | 8  | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and pulse\$1 and exceed\$3 and (greater with threshold) and cell\$1 and stor\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/28 10:16 |
| S45 | 12 | ("4357685"   "4628487"   "5257224"   "5258949"   "5774397"   "5812457"   "5880993"   "5949666"   "6034895"   "6278634"   "6380789"   "6392931").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2005/02/28 10:19 |
| S46 | 2  | "20040153621"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/26 16:52 |
| S47 | 2  | "20040191444"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/26 16:52 |
| S48 | 12 | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4 with pulse\$1) and threshold and cell\$1 and exceed\$3 and stor\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 10:15 |
| S49 | 31 | ("4628487"   "5172338"   "5218569"   "5220531"   "5239505"   "5422842"   "5557567"   "5602789"   "5623436"   "5677869"   "5729489"   "5754470"   "5764571"   "5768192"   "5784315"   "5796652"   "5801989"   "5831903"   "5923588"   "5926409"   "5986929"   "6011725"   "6014327"   "6014330"   "6040993"   "6046934"   "6097639"   "6134148"   "6266270"   "6317364"   "6373747").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/01/30 10:07 |
| S50 | 19 | ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4 with pulse\$1) and threshold and cell\$1 and exceed\$3 and stor\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 10:19 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S51 | 18  | ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4 with pulse\$1) and threshold and cell\$1 and (exceed\$3 or reach\$3) and (second with phase with program\$4 with pulse\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 10:32 |
| S52 | 433 | ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) and threshold and cell\$1 and (exceed\$3 or reach\$3) and (second with program\$4 with pulse\$1)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 10:22 |
| S53 | 26  | ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) same threshold same cell\$1 same (exceed\$3 or reach\$3) same (second with program\$4 with pulse\$1)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 11:28 |
| S54 | 1   | 60/421786  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 10:26 |
| S55 | 26  | ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) same cell\$1 same (exceed\$3 or reach\$3) same threshold same (second with program\$4 with pulse\$1)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 11:34 |
| S56 | 433 | ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) and cell\$1 and (exceed\$3 or reach\$3) and threshold and (second with program\$4 with pulse\$1)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 18:18 |
| S57 | 361 | "365"/\$.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) and cell\$1 and (exceed\$3 or reach\$3) and threshold and (second with program\$4 with pulse\$1)    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/30 11:35 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S58 | 2   | ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4 with pulse\$1) same exceed\$3 same threshold and (second with phase with program\$4 with pulse\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 09:31 |
| S59 | 15  | ((non-volatile or non\$volatile) or NVM or flash) and (first with phase with program\$4) same (exceed\$3 or reach\$3) same threshold and (second with phase with program\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 09:30 |
| S60 | 101 | ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) same (exceed\$3 or reach\$3) same threshold and (second program\$4 with pulse\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 09:31 |
| S61 | 24  | ("5095344"   "5163021"   "5172338"   "5430859"   "5570315"   "5602987"   "5657332"   "5663901"   "5712180"   "5768191"   "5774397"   "5890192"   "5920507"   "5920508"   "6046935"   "6151248"   "6278632"   "6373746"   "6411551"   "6426893"   "6456528"   "6512263"   "6522580"   "6538923").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/02/01 10:26 |
| S62 | 14  | ("5483486"   "5485422"   "5566120"   "5602775"   "5694356"   "5768192"   "5966603"   "6011725"   "6074917"   "6219276"   "6297096"   "6320786"   "6396741"   "6487114").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/02/01 10:43 |
| S63 | 2   | "6,967872".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 14:17 |
| S65 | 1   | "365"/63,51,191,189.03,230.01, 233.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4 with pulse) and threshold and (exceed\$3 or reach\$3) and stor\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/01 18:58 |



## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S66 | 22   | ("3271591"   "3530441"  <br>"5296716"   "5687112"  <br>"5789758"   "5879955"  <br>"5912839"   "5920788"  <br>"5933365"   "5970336"  <br>"5998244"   "6002140"  <br>"6031287"   "6075719"  <br>"6085341"   "6087674"  <br>"6141241"   "6153890"  <br>"6229157"   "6314014").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/02/01 18:17 |
| S68 | 24   | ("5095344"   "5163021"  <br>"5172338"   "5430859"  <br>"5570315"   "5602987"  <br>"5657332"   "5663901"  <br>"5712180"   "5768191"  <br>"5774397"   "5890192"  <br>"5920507"   "5920508"  <br>"6046935"   "6151248"  <br>"6278632"   "6373746"  <br>"6411551"   "6426893"  <br>"6456528"   "6512263"  <br>"6522580"   "6538923").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/02/01 18:18 |
| S69 | 2964 | ((non-volatile or non\$volatile) or<br>NVM or flash) and (first with<br>program\$4) and (second with<br>program\$4) and threshold and<br>cell\$1 and pulse   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/01 18:52 |
| S70 | 81   | "365"/63,51,191,189.03,230.01,<br>233.ccls. and ((non-volatile or<br>non\$volatile) or NVM or flash) and<br>(first with program\$4) and<br>(second with program\$4) and<br>threshold and cell\$1 and pulse   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/01 18:23 |
| S71 | 145  | "365"/185.24,185.19,185.33,185.<br>25,185.28,189.03.ccls. and<br>((non-volatile or non\$volatile) or<br>NVM or flash) and (first with<br>program\$4 with pulse\$1) and<br>cell\$1 and (exceed\$3 or reach\$3)<br>and threshold and (second with<br>program\$4 with pulse\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 18:47 |
| S72 | 10   | ("5043940"   "5163021"  <br>"5621667"   "5671388"  <br>"5949714"   "6011715"  <br>"6091618"   "6104637"  <br>"6259627"   "6366496").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/02/01 18:50 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S73 | 584  | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4) and (second with program\$4) and threshold and cell\$1 and pulse   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/01 18:52 |
| S74 | 55   | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and threshold and cell\$1 and exceed\$3 and stor\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 18:53 |
| S75 | 145  | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (first with program\$4 with pulse\$1) and cell\$1 and (exceed\$3 or reach\$3) and threshold and (second with program\$4 with pulse\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/02/01 18:58 |
| S76 | 23   | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4 with pulse) and threshold and (exceed\$3 or reach\$3) and stor\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/01 18:58 |
| S77 | 0    | ((non-volatile adj2 memory) or NVM) and pulse\$1 and (threshold with votage) and (program\$4 with pulse)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/27 14:41 |
| S78 | 1509 | ((non-volatile adj2 memory) or NVM) and pulse\$1 and (threshold with voltage) and (program\$4 with pulse)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/27 14:46 |
| S79 | 789  | ((non-volatile adj2 memory) or NVM) and (threshold with voltage) and (program\$4 with pulse) and (stor\$3 with charge)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/27 14:48 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S80 | 24  | "365"/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and threshold and cell\$1 and exceed\$3 and stor\$5 and ((non-volatile adj2 memory) or NVM) and (threshold with voltage) and (program\$4 with pulse) and (stor\$3 with charge)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/27 14:48 |
| S81 | 28  | ("20020024846"   "20020057598"   "20020118574"   "20030147278"   "5220531"   "5313421"   "5412601"   "5521865"   "5570315"   "5652719"   "5712180"   "5712815"   "5761222"   "5870344"   "5926409"   "5949714"   "6151248"   "6222762"   "6243290"   "6266270"   "6301161"   "6317364"   "6424566"   "6522580"   "6525964"   "6529412"   "6532172"   "6856551").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/06/27 15:38 |
| S82 | 9   | ("5469384"   "5537350"   "5553020"   "5870335"   "5946236"   "6028790"   "6038174"   "6219279"   "6285598").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/06/27 16:12 |
| S83 | 1   | "6,954369".pn.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/06/27 16:13 |
| S84 | 163 | ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and cell\$1 and ((exceed\$3 or reach\$3) with threshold) and (stor\$5 near2 charge)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/28 18:56 |
| S85 | 16  | ("20030112663"   "20040109362"   "20040255090"   "20050024939"   "20050083735"   "5386422"   "5570315"   "5774397"   "5801989"   "6046935"   "6222762"   "6266270"   "6456528"   "6522580"   "6859397"   "6888758").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2006/06/28 18:54 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S86 | 36 | 365/185.24,185.19,185.33,185.25,185.28,189.03.ccls. and ((non-volatile or non\$volatile) or NVM or flash) and (phase with program\$4) and cell\$1 and ((exceed\$3 or reach\$3) with threshold) and (stor\$5 near2 charge) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/06/28 18:57 |
|-----|----|---|---|----|-----|------------------|